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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/518,204	03/03/2000	Paul Kwok Keung Ho	CS99-060	7394
28112 7	590 05/29/2003			
GEORGE O. SAILE & ASSOCIATES 28 DAVIS AVENUE POUGHKEEPSIE, NY 12603			EXAMINER	
			CARRILLO, BIBI SHARIDAN	
			ART UNIT	PAPER NUMBER
•			1746	
			DATE MAILED: 05/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

			Gr.
 -		Application No.	Applicant(s)
		09/518,204	KEUNG HO ET AL.
	Office Action Summary	Examiner	Art Unit
_		Sharidan Carrillo	1746
	- The MAILING DATE of this commun	ication appears on the cover sheet v	vith the c rrespondence address
THE N - Exten after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (3)	CATION. of 37 CFR 1.136(a). In no event, however, may a nunication. 0) days, a reply within the statutory minimum of the atutory period will apply and will expire SIX (6) MC will, by statute, cause the application to become A	irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1)	Responsive to communication(s) fil	ed on 14 May 2003 .	
2a)⊠	•	2b) This action is non-final.	
3)	Since this application is in condition	for allowance except for formal ma	atters, prosecution as to the merits is
Dispositi	closed in accordance with the pract on of Claims	tice under <i>Ex parte Quayle</i> , 1935 C	D. 11, 453 O.G. 213.
4)⊠	Claim(s) 1-18 is/are pending in the	application.	
	a) Of the above claim(s) is/a	re withdrawn from consideration.	
5)□	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-18</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
	Claim(s) are subject to restric on Papers	tion and/or election requirement.	
9) 🗌 🗆	he specification is objected to by the	e Examiner.	
10)□ 7	he drawing(s) filed on is/are:	a) ☐ accepted or b) ☐ objected to by	the Examiner.
	Applicant may not request that any obje	ection to the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).
11) 🔲 🏾	he proposed drawing correction filed	d on is: a) ☐ approved b) ☐	disapproved by the Examiner.
	If approved, corrected drawings are red	quired in reply to this Office action.	
12)[] T	he oath or declaration is objected to	by the Examiner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)[All b) Some * c) None of:		
	1. ☐ Certified copies of the priority	documents have been received.	
	2. Certified copies of the priority	documents have been received in A	Application No
		of the priority documents have beer ational Bureau (PCT Rule 17.2(a)). n for a list of the certified copies no	·
14) 🗌 A	cknowledgment is made of a claim fo	or domestic priority under 35 U.S.C	. § 119(e) (to a provisional application).
	☐ The translation of the foreign lan cknowledgment is made of a claim for		
Attachment	_	· •	
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P' ation Disclosure Statement(s) (PTO-1449) Pa	TO-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
i. Patent and Tra FO-326 (Rev		Office Action Summary	Part of Paper No. 14

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki et al.
 (5770095) in view of Ng et al. (Synthesis of Some Carbonyl Derivatives of BTA and
 Determination of Their Inhibitive Properties for Copper in 3% NaCl Solution, Corrosion Science

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and Protection Technology, Vol. 9 (3), July 1997, pp.201-204 for the reasons recited in paragraph 2 of the previous Office Action of 4/22/02.

Response to Arguments

- 3. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching. suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Sasaki teaches that a BTA derivative and be used. Ng et al. teaches that a carbonyl derivative of benzotriazole creates a more enhanced protective film with more intensive hydrophobic ability and higher resistance against penetration and can be used for protection of copper on printed circuit boards. It would have been within the level of the skilled artisan to have modified the method of Sasaki to include carbonyl derivatives of benzotriazole, as taught by Ng et al. since Sasaki teaches that any BTA derivative can be used and further Ng et al. teach carbonyl derivatives of benzotriazoles create a more enhanced protective film for copper surfaces on printed circuit boards. Additionally, both references are in the same field of endeavor directed to the formation of a protective film for copper using derivatives of benzotriazoles.
- 4. Applicant argues that Sasaki teaches a derivative prepared by substituting a hydrogen atom of a BTA benzene ring with a methyl group. Applicant's arguments are unpersuasive because applicant is relying on preferred embodiments instead of the teachings as a whole. The

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broad disclosure of a reference is relevant prior art for all it would have suggested to those of ordinary skill. A reference may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art, including nonpreferred embodiments. Disclosed examples and preferred embodiments do not constitute a teaching away from a broader disclosure or nonpreferred embodiments.

- 5. Applicant continues to argue the improper combination of the references because Sasaki fails to teach any BTA derivative. Applicant's arguments are unpersuasive because in col. 3, lines 35-45, Sasaki teaches that BTA derivatives can be used as a chemical agent, and gives as an EXAMPLE tryltriazole. Applicant is relying on the specific example of tryltriazole and not on the teachings of the reference as a whole.
- 6. Applicant's arguments filed 5/14/03 have been fully considered but they are not persuasive for the reasons recited above.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharidan Carrillo whose telephone number is 703-308-1876. The examiner can normally be reached on Monday-Friday, 6:00a.m-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on 703-308-4333. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7719 for regular communications and 703-305-7719 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Sharidan Carrillo Primary Examiner Art Unit 1746

bsc May 28, 2003

SHARIDAN CARRILLO PRIMARY EXAMINER